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SUBSTITUTE FOR FORM 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>	Complete if Known
	Application Number 10/629,101 Filing Date July 28, 2003 First Named Inventor Tinku Acharya Group Art Unit 2621 Examiner Name Joseph L. Couso Attorney Docket Number 42P8760C

Examiner Initials*	Cite No.†	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
20		5,875,122		Acharya	02-23-1999	
		5,995,210		Acharya	11-30-1999	
		6,009,201		Acharya	12-28-1999	
		6,009,206		Acharya	12-28-1999	
		6,047,303		Acharya	04-04-2000	
		6,091,851		Acharya	07-18-2000	
		6,094,508		Acharya, et al.	07-25-2000	
		6,108,453		Acharya	08-22-2000	
		6,131,069		Dunton, et al.	11-21-2000	
		6,124,811		Acharya, et al.	09-26-2000	
		6,151,415		Acharya, et al.	11-21-2000	
		6,130,960		Acharya	10-10-2000	
		6,154,493		Acharya, et al.	11-28-2000	
		6,166,664		Acharya	12-26-2000	
		6,178,269	B1	Acharya	01-23-2001	
		6,195,026	B1	Acharya	02-27-2001	
		6,215,908	B1	Pazmino, et al.	04-10-2001	
		6,215,916	B1	Acharya	04-10-2001	
	6,229,578	B1	Acharya, et la.	05-08-2001		
	6,233,358	B1	Acharya	05-15-2001		

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Examiner Signature  Date Considered 10/20/08

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 14

Complete if Known

Application Number	10/629,101
Filing Date	July 28, 2003
First Named Inventor	Tinku Acharya
Group Art Unit	2621
Examiner Name	Jose L. Couso
Attorney Docket Number	42P8760C

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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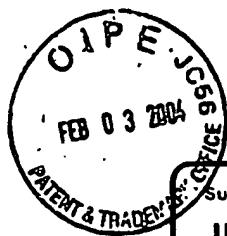
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/629,101
				Filing Date	July 28, 2003
				First Named Inventor	Tinku Acharya
				Art Unit	2621
				Examiner Name	Jose L. Couso
Sheet	3	of	14	Attorney Docket Number	42P8760C

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-5,832,115	11-03-1998	Rosenberg	
		US-6,044,168	03-28-2000	Tuceryan et al.	
		US-6,301,370	10-09-2001	Steffens et al.	
		US-6,009,210	12-28-1999	Kang	
		US-5,592,228	01-07-1997	Dachiku et al.	
		US-6,157,747	12-06-2000	Szeliski et al.	
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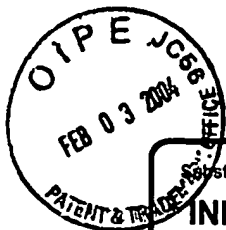
FOREIGN PATENT DOCUMENTS						
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**INFORMATION DISCLOSURE
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Sheet 4 of 14

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Application Number	10/629,101
Filing Date	July 28, 2003
First Named Inventor	Tinku Acharya
Art Unit	2621
Examiner Name	Jose L. Couso
Attorney Docket Number	42P8760C

U.S. PATENT DOCUMENTS

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		Number - Kind Code ² (if known)			
		US-6,516,093	02-04-2003	Pardas et al.	
		US-5,778,098	07-07-1998	Lee et al.	
		US-5,600,731	02-04-1997	Sezan et al.	
		US-5,978,030	11-02-1999	Jung, et al.	
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Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Complete if Known	
		Application Number	10/629,101
Sheet 5 of 14		Filing Date	July 28, 2003
		First Named Inventor	Tinku Acharya
		Group Art Unit	2621
		Examiner Name	Jose L. Couso
		Attorney Docket Number	42P8760C

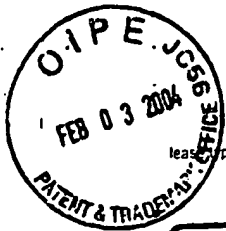
OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T†
		HAIBO LI, ET AL., "3-D MOTION ESTIMATION IN MODEL-BASED FACIAL IMAGE CODING", IEEE Transactions on pattern analysis and machine intelligence, Vol. 15 No. 6, June 1993, Pgs. 545-555.	
		GOZDE BOZDAGI, ET AL., "3-D MOTION ESTIMATION AND WIREFRAME ADAPTATION INCLUDING PHOTOMETRIC EFFECTS FOR MODEL-BASED CODING OF FACIAL IMAGE SEQUENCE", IEEE Transactions on circuits and systems for video technology, Vol. 4, 1994, Pgs. 246-256.	
		D.J. BURR, "ELASTIC MATCHING OF LINE DRAWINGS", IEEE Transactions on pattern analysis and machine intelligence, Vol. PAMI-3, No. 6, November 1981, Pgs. 708-713.	
		CHANG CHOI, ET AL., "ANALYSIS AND SYNTHESIS OF FACIAL IMAGE SEQUENCES IN MODEL-BASED IMAGE CODING", IEEE Transactions on circuits and systems for video technology, Vol. 4, No. 3, June 1994, Pgs. 257-275.	
		JOHN F.S. YAU, ET AL., "A TEXTURE MAPPING APPROACH TO 3-D FACIAL IMAGE SYNTHESIS", North-Holland Computer Graphics Forum 7 1988, Pgs. 129-134.	
		CHUNG-LIN HAUNG, ET AL., "HUMAN FACIAL FEATURE EXTRACTION FOR FACE INTERPRETATION AND RECOGNITION", Pattern Recognition, Vol. 25, No. 12, 1992, Pgs. 1435-1444.	
		DEMETRI TERZOPOULOS, ET AL., "CONSTRAINTS ON DEFORMABLE MODELS: RECOVERING 3D SHAPE AND NONRIGID MOTION", Schlumberger Palo Research, Palo Alto, CA, Artificial Intelligence 36, 1988, Elsevier Science Publishers B.V., Pgs. 91-123.	
		ACHARYA, "A MEMORY BASED VLSI ARCHITECTURE FOR IMAGE COMPRESSION", Application No. 09/885,415, Filed June 30, 1997, Attorney Docket No. 042390.P4425, 37 Pgs.	
		ACHARYA, ET AL., "A NEW SCALING ALGORITHM AND ARCHITECTURE FOR INTEGER SCALING IN VIDEO", Application No. 09/008,131, Filed January 16, 1998, Attorney Docket No. 042390.P4713, 38 Pgs.	
		ACHARYA, "AN INTEGRATED COLOR INTERPOLATION AND COLOR SPACE CONVERSION ALGORITHM FROM 8-BIT BAYER PATTERN RGB COLOR SPACE TO 12-BIT YCrCb COLOR SPACE", Application No. 09/034,625, Filed March 4, 1998, Attorney Docket No. 042390.P4818, Pgs. 1-42.	
		ACHARYA, "A MEDIAN COMPUTATION-BASED INTEGRATED COLOR INTERPOLATION AND COLOR SPACE CONVERSION METHODOLOGY FROM 8-BIT BAYER PATTERN RGB COLOR SPACE TO 12-BIT YCrCb COLOR SPACE", Application No. 09/040,806, Filed March 18, 1998, Attorney Docket No. 042390.P5657, 42 Pgs.	
		ACHARYA, "AN INTEGRATED COLOR INTERPOLATION AND COLOR SPACE CONVERSION ALGORITHM FROM 8-BIT BAYER PATTERN RGB COLOR SPACE TO 24-BIT CIE XYZ COLOR SPACE", Application No. 09/048,901, Filed March 26, 1998, Attorney Docket No. 042390.P5644, 43 Pgs.	
		ACHARYA, "A MEDIAN COMPUTATION-BASED INTEGRATED COLOR INTERPOLATION AND COLOR SPACE CONVERSION METHODOLOGY FROM 8-BIT BAYER PATTERN RGB COLOR SPACE TO 24-BIT CIE XYZ COLOR SPACE", Application No. 09/050,743, Filed March 30, 1998, Attorney Docket No. 042390.P5045, 36 Pgs.	

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/629,101
		Filing Date	July 28, 2003
Sheet 6 of 14		First Named Inventor	Tinku Acharya
		Group Art Unit	2621
		Examiner Name	Jose L. Couso
		Attorney Docket Number	42P8760C

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		EDWARD J. BAWOLEK, ET AL., "INFRARED CORRECTION SYSTEM", Application No. 09/126,203, Filed: July 30, 1998, Attorney Docket No. 042390.P6172, 18 Pgs.	
		ACHARYA, "AN EFFICIENT METHODOLOGY TO SELECT THE QUANTIZATION THRESHOLD PARAMETERS IN A DWT-BASED IMAGE COMPRESSION SCHEME IN ORDER TO STORE A PREDEFINED MINIMUM NUMBER OF IMAGES INTO A FIXED SIZE SECONDARY STORAGE", Application No. 09/146,159, Filed: September 3, 1998, Attorney Docket No. 042390.P6081, 35 Pgs.	
		PAZMINO, ET AL., "METHOD OF COMPRESSING AND/OR DECOMPRESSING A DATA SET USING SIGNIFICANCE MAPPING", Application No. 09/151,336, Filed: September 11, 1998, Attorney Docket No. 042390.P6391, 25 Pgs.	
		TAN, ET AL., "REDUCTION OF RINGING ARTIFACTS AFTER DECOMPRESSION OF A DWT-BASED COMPRESSED IMAGE", Application No. 09/165,511, Filed: October 2, 1998, Attorney Docket No. 042390.P6220, 20 Pgs.	
		TAN, ET AL., "ROBUST SEQUENTIAL APPROACH IN DETECTING DEFECTIVE PIXELS WITHIN AN IMAGE SENSOR", Application No. 09/191,310, Filed: November 13, 1998, Attorney Docket No. 042390.P6575, 35 Pgs.	
		ACHARYA, ET AL., "COLOR INTERPOLATION FOR A FOUR COLOR MOSAIC PATTERN", Application No. 09/199,836, Filed: November 24, 1998, Attorney Docket No. 042390.P6376, 26 Pgs.	
		ACHARYA, "A MATHEMATICAL MODEL FOR GRAY SCALE AND CONTRAST ENHANCEMENT OF A DIGITAL IMAGE", Application No. 09/207,753, Filed: December 8, 1998, Attorney Docket No. 042390.P6217, 28 Pgs.	
		TAN, ET AL., "HI-SPEED DETERMINISTIC APPROACH IN DETECTING DEFECTIVE PIXELS WITHIN AN IMAGE SENSOR", Application No. 09/258,636, Filed: February 26, 1999, Attorney Docket No. 042390.P5434, 32 Pgs.	
		ACHARYA, "ENHANCING IMAGE COMPRESSION PERFORMANCE BY MORPHOLOGICAL PROCESSING", Application No. 09/291,810, Filed: April 14, 1999, Attorney Docket No. 042390.P6878, 31 Pgs.	
		ACHARYA, ET AL., "AN EDGE ENHANCED IMAGE UP-SAMPLING ALGORITHM USING DISCRETE WAVELET TRANSFORM", Application No. 09/292,763, Filed: April 14, 1999, Attorney Docket No. 042390.P6879, 32 Pgs.	
		TAN, ET AL., "USING AN ELECTRONIC CAMERA TO BUILD A FILE CONTAINING TEXT", Application No. 09/301,753, Filed: April 29, 1999, Attorney Docket No. 042390.P5742, 21 Pgs.	
		TSAL, ET AL., "METHOD AND APPARATUS FOR ADAPTIVELY SHARPENING AN IMAGE", Application No. 09/320,192, Filed: May 26, 1999, Attorney Docket No. 042390.P6452, 27 Pgs.	
		ACHARYA, ET AL., "IMAGE PROCESSING METHOD AND APPARATUS", Application No. 09/359,523, Filed: June 4, 1999, Attorney Docket No. 042390.P7323, 16 Pgs.	

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Sheet 7 of 14	Attorney Docket Number	42P8760C

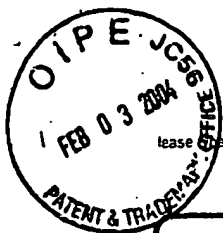
OTHER ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		TAN, ET AL., "METHOD AND APPARATUS FOR ADAPTIVELY SHARPENING LOCAL IMAGE CONTENT OF AN IMAGE", Application No. 09/328,935, Filed: June 9, 1999, Attorney Docket No. 042390.P7125, 29 Pgs.
		TAN, ET AL., "A HARDWARE EFFICIENT WAVELET-BASED VIDEO COMPRESSION SCHEME", Application No. 09/342,863, Filed: June 29, 1999, Attorney Docket No. 042390.P6529, 32 Pgs.
		TAN, ET AL., "A METHODOLOGY FOR COLOR CORRECTION WITH NOISE REGULATION", Application No. 09/359,831, Filed: July 23, 1999, Attorney Docket No. 042390.P7320, 30 Pgs.
		TAN, ET AL., "METHOD AND APPARATUS FOR AUTOMATIC FOCUSING IN AN IMAGE CAPTURE SYSTEM USING SYMMETRIC FIR FILTERS", Application No. 09/383,117, Filed: August 25, 1999, Attorney Docket No. 042390.P6694, 28 Pgs.
		ACHARYA, ET AL., "SQUARE ROOT RAISED COSINE SYMMETRIC FILTER FOR MOBILE TELECOMMUNICATIONS", Application No. 09/429,058, Filed: September 2, 1999, Attorney Docket No. 042390.P7629, 26 Pgs.
		ACHARYA, "DISCRETE FILTER", Application No. 09/432,337, Filed: September 2, 1999, Attorney Docket No. 042390.P7626, 12 Pgs.
		ACHARYA, ET AL., "ZEROTREE ENCODING OF WAVELET DATA", Application No. 09/390,255, Filed: September 3, 1999, Attorney Docket No. 042390.P7057, 29 Pgs.
		ACHARYA, ET AL., "A FUZZY DISTINCTION BASED THRESHOLDING TECHNIQUE FOR IMAGE SEGMENTATION", Application No. 09/393,017, Filed: September 10, 1999, Attorney Docket No. 042390.P7115, 29 Pgs.
		ACHARYA, ET AL., "A FUZZY BASED THRESHOLDING TECHNIQUE FOR IMAGE SEGMENTATION", Application No. 09/393,136, Filed: September 10, 1999, Attorney Docket No. 042390.P7114, 28 Pgs.
		ACHARYA, "VIDEO MOTION ESTIMATION", Application No. 09/406,032, Filed: September 27, 1999, Attorney Docket No. 042390.P7330, 24 Pgs.
		ACHARYA, ET AL., "METHOD OF INTERPOLATING COLOR PIXEL SIGNALS FROM A SUBSAMPLED COLOR IMAGE", Application No. 09/410,800, Filed: October 1, 1999, Attorney Docket No. 042390.P7331, 20 Pgs.
		ACHARYA, ET AL., "METHOD OF COMPRESSING A COLOR IMAGE", Application No. 09/411,697, Filed: October 1, 1999, Attorney Docket No. 042390.P7463, 26 Pgs.
		ACHARYA, ET AL., "INDEXING WAVELET COMPRESSED VIDEO FOR EFFICIENT DATA HANDLING", Application No. 09/438,091, Filed: November 10, 1999, Attorney Docket No. 042390.P6454, 29 Pgs.
		METZ, ET AL., "IMAGE PROCESSING ARCHITECTURE", Application No. 09/473,643, Filed: November 18, 1999, Attorney Docket No. 042390.P8050, 12 Pgs.

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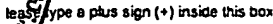
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		MIAO, ET AL., "DUAL MODE FILTER FOR MOBILE TELECOMMUNICATIONS", Application No. 09/467,611, Filed: November 18, 1999, Attorney Docket No. 042390.P8027, 31 Pgs.	
		ACHARYA, "METHOD OF CONVERTING A SUB-SAMPLED COLOR IMAGE", Application No. 09/461,068, Filed: December 14, 1999, Attorney Docket No. 042390.P4790, 23 Pgs.	
		ACHARYA, "METHOD OF UPSCALING A COLOR IMAGE", Application No. 09/461,080, Filed: December 14, 1999, Attorney Docket No. 042390.P7489, 22 Pgs.	
		ACHARYA, ET AL., "CHIP RATE SELECTABLE SQUARE ROOT RAISED COSINE FILTER FOR MOBILE TELECOMMUNICATIONS", Application No. 09/467,487, Filed: December 20, 1999, Attorney Docket No. 042390.P8026, 33 Pgs.	
		ACHARYA, ET AL., "AN EFFICIENT COMPANDING ALGORITHM SUITABLE FOR COLOR IMAGING", Application No. 09/482,551, Attorney Docket No. 042390.P4961D, 44 Pgs.	
		ACHARYA, "A BLOCK-MATCHING ALGORITHM FOR COLOR INTERPOLATION", Application No. 09/494,087, Filed: January 28, 2000, Attorney Docket No. 042390.P5090D, 45 Pgs.	
		ACHARYA, ET AL., "METHOD OF INVERSE QUANTIZING QUANTIZED SIGNAL SAMPLES OF AN IMAGE DURING IMAGE DECOMPRESSION", Application No. 09/507,213, Filed: February 18, 2000, Attorney Docket No. 042390.P8350, 32 Pgs.	
		ACHARYA, ET AL., "METHOD OF QUANTIZING SIGNAL SAMPLES OF AN IMAGE DURING IMAGE COMPRESSION", Application No. 09/507,399, Filed: February 18, 2000, Attorney Docket No. 042390.P7135, 24 Pgs.	
		ACHARYA, ET AL., "METHOD OF INTEGRATING A WATERMARK INTO A COMPRESSED IMAGE", Application No. 09/519,135, Filed: March 6, 2000, Attorney Docket No. 042390.P7319, 25 Pgs.	
		ACHARYA, ET AL., "METHOD OF INTEGRATING A WATERMARK INTO AN IMAGE", Application No. 09/519,874, Filed: March 6, 2000, Attorney Docket No. 042390.P7136, 27 Pgs.	
		ACHARYA, ET AL., "METHOD OF USING HUE TO INTERPOLATE COLOR PIXEL SIGNALS", Application No. 09/591,867, Filed: June 12, 2000, Attorney Docket No. 042390.P8746, 23 Pgs.	
		DUNTON, ET AL., "DUAL MODE DIGITAL CAMERA FOR VIDEO AND STILL OPERATION", Application No. 09/595,055, Filed: June 16, 2000, Attorney Docket No. 042390.P5079C, 27 Pgs.	
	KIM, ET AL., "METHOD OF PERFORMING MOTION ESTIMATION", Application No. 09/596,127, Filed: June 16, 2000, Attorney Docket No. 042390.P8747, 29 Pgs.		
	ACHARYA, ET AL., "METHOD OF COMPRESSING AN IMAGE", Application No. 09/597,354, Filed: June 19, 2000, Attorney Docket No. 042390.P8760, 23 Pgs.		

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Application Number	10/629,101
Filing Date	July 28, 2003
First Named Inventor	Tinku Acharya
Group Art Unit	2621
Examiner Name	Jose L. Couso
Attorney Docket Number	42P8760C

Sheet | 9 | of | 14

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/629,101
Filing Date	July 28, 2003
First Named Inventor	Tinku Acharya
Group Art Unit	2621
Examiner Name	Jose L. Couso
Attorney Docket Number	42P8760C

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DEFU CAI, ET AL., "SEVERAL KEY PROBLEMS IN MODEL-BASED IMAGE SEQUENCE COMPRESSION BY USING INTERFRAME AU_s CORRELATION", Institute of Electronics, Chinese Academy of Science, Beijing, China, 1994 IEEE, Pgs. 409-413.

MICHAEL BOVE, JR., "OBJECT-ORIENTED TELEVISION", SMPTE Journal, December 1995, No. 12, White Plains, NY, XP 000543848, Pgs. 803-807.

PETER EISERT, ET AL., "RATE-DISTORTION-EFFICIENT VIDEO COMPRESSION USING A 3-D HEAD MODEL", Telecommunications Laboratory, University of Erlangen-Nuremberg, Erlangen, Germany, 1999 IEEE, Pgs. 217-221.

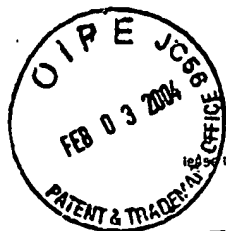
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Complete if Known
	Application Number 10/629,101 Filing Date July 28, 2003 First Named Inventor Tinku Acharya Group Art Unit 2621 Examiner Name Jose L. Couso Attorney Docket Number 42P8760C
Sheet 11 of 14	

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		KARSTEN SCHRODER, ET AL., "COMBINED DESCRIPTION OF SHAPE AND MOTION IN AN OBJECT BASED CODING SCHEME USING CURVED TRIANGLES", University of Dortmund, Dortmund, Germany, 1995 IEEE, Pgs. 390-393.
		TSUHAN CHEN, ET AL., "A NEW FRAME INTERPOLATION SCHEME FOR TALKING HEAD SEQUENCES", AT&T Bell Laboratories, Holmdel, New Jersey, 1995 IEEE, Pgs. 591-594.


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Application Number	10/629,101
Filing Date	July 28, 2003
First Named Inventor	Tinku Acharya
Art Unit	2621
Examiner Name	Jose L. Couso
Attorney Docket Number	42P8760C

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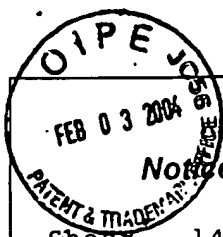
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Cal, et al., "SEVERAL KEY PROBLEMS IN MODEL-BASED IMAGE SEQUENCE
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Applicant(s)/Patent Under
Reexamination
ACHARYA ET AL.

Examiner

Jose L. Couso

Art Unit

2621

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-4941193 ✓	07-1990	Barnsley et al.	382/232
	B	US-5065447 ✓	11-1991	Barnsley et al.	382/232
	C	US-5347600	09-1994	Barnsley et al.	382/232
	D	US-5416856	05-1995	Jacobs et al.	382/232
	E	US-5724451	03-1998	Shin et al.	382/240
	F	US-5740282	04-1998	Hurd	382/248
	G	US-5862262	01-1999	Jacobs et al.	382/249
	H	US-5867221	02-1999	Pullen et al.	348/417.1
	I	US-5982441	11-1999	Hurd et al.	348/417
	J	US-			
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